Reading Equipment Serial Numbers

The month and year that equipment was manufactured can be determined by the following:

1 0 4 K A T 1 2 3 4

YEAR 2011 MONTH

2 0 4 K A T 1 2 3 4

YEAR 2012 MONTH

LG Model Numbers - 2012

L	S	U	122	H	E
LG	TYPE	UNIT ID	CAPACITY	DUTY	DESIGN
	A Art Cool, Single		093/096 - 9,000 BTU		**E** Standard
	S Single Zone		122/126 - 12,000 BTU	**H** Heat Pump	
	M Multi Zone	**N** Indoor	186 - 18,000 BTU	**HV** Inverter	*Art Cool Options*
	MA Art Cool Multi Zone		240 - 24,000 BTU	**HSV** Inverter Super	**NP** Picture, replaceable
	MD Ducted Multi Zone		090/091/095/096 - 9,000 BTU INV	High Efficiency	*(single-zone only)*
	MC Cassette Multi Zone	**U** Outdoor	120/121/125/126 - 12,000 BTU INV		
	C Ceiling Cassette		180/181/185/186/187 - 18,000 BTU INV	**HVT** Thermostat	**Multi-zone - Standard**
	U Universal		240/246/247 - 24,000 BTU INV	Compatible Inverter	**Mirror**
			307 - 30,000 BTU INV		*Optional organic cream,*
			360/369 - 36,000 BTU INV		*white, art flower gold,*
			426 - 42,000 BTU INV		*snow flower white*

SINGLE ZONE SYSTEMS

HEAT PUMP INVERTER		SUPER HIGH EFFICIENCY INVERTER	HEAT PUMP INVERTER		SUPER HIGH EFFICIENCY INVERTER
OUTDOOR UNITS			*INDOOR UNITS*		
Standard			*Standard*		
LSU093HE	**LAU090HSV**	**LSU091HSV**	**LSN093HE**	**LAN090HSV**	**LSN091HSV**
LSU122HE	**LAU120HSV**	**LSU121HSV**	**LSN122HE**	**LAN120HSV**	**LSN121HSV**
LSU186HE	**LAU180HSV**	**LSU181HSV**	**LSN186HE**	**LAN180HSV**	**LSN181HSV**
	LAU240HSV	**LSU240HSV**		**LAN240HSV**	**LSN240HSV**
Art Cool	**LSU246HV**		*Art Cool*	**LSN246HV**	
LAU096HNP	**LSU307HV**		**LAN091HNP**	**LSN307HV**	
LAU126HNP	**LSU360HV**		**LAN121HNP**	**LSN360HV**	
	LUU246HV		**LAN090HNP**	**LCN246HV**	
	LUU426HV			**LCN426HV**	

FLEX MULTI SYSTEMS

HEAT PUMP

INDOOR UNITS				*OUTDOOR UNITS*
Standard	*Art Cool*	*Ducted*	*Cassette*	
LMN096HVT	**LMAN095HVT**	**LMDN095HV**	**LMCN125HV**	**LMU187HV (18k)**
LMN126HVT	**LMAN125HVT**	**LMDN125HV**	**LMCN185HV**	**LMU247HV (24k)**
LMN186HVT	**LMAN185HVT**	**LMDN185HV**		**LMU369HV (34k)**

LG MODEL NUMBERS - 2011

L	S	U	092	C	E
LG	TYPE	UNIT ID	CAPACITY	DUTY	DESIGN
	A Art Cool Single Zone		093/096 - 9,000 BTU	C Cool	E Standard
	S Single Zone		122/126 - 12,000 BTU	H Heat Pump	
	M Multi Zone		186 - 18,000 BTU	HV Inverter	*Art Cool Options*
	MA Multi Zone Art Cool	N Indoor		HSV Inverter Super High Efficiency	NP Picture, replaceable *(single zone only)*
	MD Multi Zone Ducted		090/091/095/096 - 9,000 BTU INV		
	MC Multi Zone Cassette		120/121/125/126 - 12,000 BTU INV	HVT Thermostat Compatible Inverter	
	F Floor Standing	U Outdoor	180/181/185/186/187 - 18,000 BTU INV		
	C Ceiling Cassette		240/246/247 - 24,000 BTU INV		
	U Universal		307 - 30,000 BTU INV		
			369 - 34,000 BTU INV		
			360/366 - 36,000 BTU INV		
			426 - 42,000 BTU INV		

SINGLE ZONE SYSTEMS

STRAIGHT COOL	HEAT PUMP		INVERTER	SUPER HIGH EFFICIENCY INVERTER
OUTDOOR UNITS				
Standard	*Standard*	*Art Cool*		
LSU093CE	LSU093HE	LAU096HNP	LAU090HSV	LSU091HSV
LSU122CE	LSU122HE	LAU126HNP	LAU120HSV	LSU121HSV
LSU186CE	LSU186HE		LAU180HSV	LSU181HSV
			LAU240HSV	LSU240HSV
			LSU246HV	
			LSU307HV	
			LSU360HV	
			LUU246HV	
			LUU426HV	
INDOOR UNITS				
Standard	*Standard*	*Art Cool*		
LSN093CE	LSN093HE	LAN091HNP	LAN090HSV	LSN091HSV
LSN122CE	LSN122HE	LAN121HNP	LAN120HSV	LSN121HSV
LSN186CE	LSN186HE	LAN090HNP	LAN180HSV	LSN181HSV
			LAN240HSV	LSN240HSV
			LSN246HV	
			LSN307HV	
			LSN360HV	
			LFN246HV	
			LFN426HV	
			LCN246HV	
			LCN426HV	

FLEX MULTI SYSTEMS

HEAT PUMP

OUTDOOR UNITS

LMU187HV (18k)
LMU247HV (24k)
LMU369HV (34k)
LMU366HV (36k)

INDOOR UNITS

Standard	*Art Cool*	*Ducted*	*Cassette*
LMN096HVT	LMAN095HVT	LMDN095HV	LMCN125HV
LMN126HVT	LMAN125HVT	LMDN125HV	LMCN185HV
LMN186HVT	LMAN185HVT	LMDN185HV	

LG MODEL NUMBERS - 2010

L	S	U	122	C	E
LG	**TYPE** **A** Art Cool, Single **S** Single Zone **M** Multi Zone **MA** Art Cool Multi Zone **MD** Ducted Multi Zone **MC** Cassette Multi Zone **F** Floor Standing **C** Ceiling Cassette **U** Universal	**UNIT ID** **N** Indoor **U** Outdoor	**CAPACITY** 091/092/093 - 9,000 BTU 121/122 - 12,000 BTU 182 - 18,000 BTU 242 - 24,000 BTU 090/091/095/096 - 9,000 BTU INV 120/121/125/126 - 12,000 BTU INV 180/181/185/186 - 18,000 BTU INV 240/241/245/246 - 24,000 BTU INV 365/366 - 36,000 BTU INV 306 - 30,000 BTU INV	**DUTY** **C** Cool **H** Heat Pump **HV** Inverter **HSV** Inverter Super High Efficiency **HVT** Thermostat Compatible Inverter	**DESIGN** **E** Standard *Art Cool Options* **NP** Picture, replaceable *(single-zone only)* **Multi-zone - Standard Mirror** *optional organic cream, white art flower gold, snow flower white*

SINGLE ZONE SYSTEMS

STRAIGHT COOL		HEAT PUMP		INVERTER	SUPER HIGH EFFICIENCY INVERTER
		OUTDOOR UNITS			
Standard	*Art Cool*	*Standard*	*Art Cool*		
LSU092(3)CE	**LAU091CNP**	**LSU092(3)HE**	**LAU091HNP**	**LAU095(6)HV**	**LSU090(1)HSV**
LSU122CE	**LAU121CNP**	**LSU122HE**	**LAU121HNP**	**LAU125(6)HV**	**LSU120(1)HSV**
LSU182(6)CE		**LSU182(6)HE**	**LAU095(6)HNP**	**LAU185(6)HV**	**LSU180(1)HSV**
LSU242(6)CE		**LSU242(6)HE**		**LAU245(6)HV**	**LSU240(1)HSV**
				LSU306HV	
		INDOOR UNITS			
Standard	*Art Cool*	*Standard*	*Art Cool*		
LSN092(3)CE	**LAN091CNP**	**LSN092(3)HE**	**LAN091HNP**	**LAN095(6)HV**	**LSN090(1)HSV**
LSN122CE	**LAN121CNP**	**LSN122HE**	**LAN121HNP**	**LAN125(6)HV**	**LSN120(1)HSV**
LSN182(6)CE		**LSN182(6)HE**	**LAN095(6)HNP**	**LAN185(6)HV**	**LSN180(1)HSV**
LSN242(6)CE		**LSN242(6)HE**		**LAN245(6)HV**	**LSN240(1)HSV**
				LSN306HV	

FLEX MULTI SYSTEMS

STRAIGHT COOL		HEAT PUMP			
		OUTDOOR UNITS			
		LMU185(6)HV (18k)			
		LMU245(6)HV (24k)			
		LMU365(6)HV (36k)			
		INDOOR UNITS			
Standard	*Art Cool*			*Ducted*	*Cassette*
LMN095HVT	**LMAN095HVT**			**LMDN095HV**	**LMCN125HV**
LMN125HVT	**LMAN125HVT**			**LMDN125HV**	**LMCN185HV**
LMN185HVT	**LMAN185HVT**			**LMDN185HV**	

****2010 REVISED PART NUMBERS SHOWN IN ( )**

DFS Installation

Terry Frisenda
Regional Sales LG Electronics
Southeast U.S.

www.lg-dfs.com

DFS Installation

- Verify or Run a Load Calculation
- Verify available voltage
- Verify dedicated circuit available
- Verify matched systems components
- Verify piping run will be within specifications
- Verify indoor and outdoor locations
- Read Installation Manual prior to beginning installation
- Don’t sell a system beyond it’s capabilities

DFS Installation

Absolutely Needed

- R410a flaring tool
- R410a hose adaptor
- Vacuum Pump
- Clean vacuum pump oil
- Electronic scale
- 600 psi nitrogen regulator
- 2-3/4” hole saw
- 4 mm allen wrench
- 2 adjustable wrenches
- Suction gauge / hose set
- Micron Gauge

Should Have

- Spring Benders
- Diamond Core bit
- Torque wrenches
- Dedicated LG gauge set
- LGMV Software
- Inverter Checker
- LED Thermometer

DFS Installation

Absolutely Needed

- Individually insulated line sets
- 14/4 Stranded Wire - 300 volt - outdoor rated
- Hollow Wall Fasteners
- Concrete Fasteners
- Electrical Whip / Disconnect
- ½" conduit fittings
- Expanding foam for wall penetration
- Drain line material

Should Use

- 6" line set covers
- Pre-Made Line sets
- 600 Volt outdoor 14/4 stranded - shielded wire
- Spade Connectors
- Flexible insulated anti-microbial drain line material
- Correct Condensate Pump for application if needed

Site Preparation Indoor Unit

- **Locate Indoor unit to provide optimum cooling coverage**

a) Avoid doors – windows – heat generating sources
b) Maintain recommended clearances, heights, and distance from ceilings
c) Determine wall material and fastening methods for such
d) Mount wall bracket with selected fasteners

(tip: install two strips of foam tape on back of plate)

- **Determine pipe route from back of unit and drill hole accordingly**

(tip: make sure to drill hole at slightly downward angle)

- **Temporarily install indoor unit and check for fit and finish**
- **Make electrical connections prior to installing indoor unit**

(tip: use spade connectors on all terminals)

- **Route piping, wire, and drain line through access hole and proceed outdoors (if on an exterior wall)**

(tip: use insulated drain material to avoid condensation issues)

Site Preparation Outdoor Unit

- **Locate Outdoor Unit to provide optimum service access and clearances**

a) Avoid doors – windows – heat generating sources
b) Maintain recommended clearances and avoid discharge air obstructions
c) Install unit on properly leveled precast concrete pad and anchor accordingly
d) Mount line set cover with approved fasteners

(tip: 6” covers provide adequate room for piping, wiring, and drain)

- **Pre-Form line set to match route planned**

(tip: make sure not to kink the copper while forming bends)
(tip: measure line set and record length inside outdoor unit)

- **Connect flares at both ends of tubing**

(tip: use a small amount of oil on back sides of flares)

Site Preparation Outdoor Unit

- **Tighten Flares**
  (tip: always use 2 wrenches when tightening flare connections)
  (tip: torque wrenches provide the optimum setting for flare connections)
- **Connect indoor wiring to outdoor unit making sure to follow same color code as indoor connections**
  (tip: use spade connectors on all terminals)
  (tip: 14-4 stranded cable is required on all high voltage combinations)
  (tip: Shielded cable is suggested for all installations in server rooms)
- **Connect high voltage power from dedicated circuit**
  (tip: make sure to wire L1 and L2 to correct polarity for all 115 volt systems)
  (tip: make sure to verify a solid ground connection)
- **Verify all piping and electrical connections before proceeding**
  (tip: make sure no strands are loose and touching adjacent terminals)
- **Prepare unit for leak check process**
  (tip: pull tubing insulation from flares and apply small amount of leak bubbles prior to adding Nitrogen)

Start Up Preparation Outdoor Unit

- **Add Nitrogen to 550 psi**
  (tip: listen and look for leaks @ flare connections)
  (tip: hold 600 psi until confident no leaks are present)
- **Connect vacuum pump and micron gauge to service valve**
  (tip: never use unitary gauge sets to avoid cross contamination)
  (tip: always use clean vacuum pump oil)
  (tip: make sure to pull at least a 500 micron vacuum on first attempt)
- **Continue evacuation process until confident no leaks or non-condensable are present**
  (tip: triple evacuation process is a good practice)
  (tip: dirty vacuum pump oil prohibits a good evacuation)
- **Secure tubing insulation and wiring in line set cover and install top cover**
  (tip: make sure to properly insulate all joints and tape to prevent condensation forming)
- **Prepare unit for start up process**
  (tip: good time to make sure all procedures and checks were completed)

Start Up Preparation Outdoor Unit

- **Open service valves**
  (tip: a 4mm allen wrench is required)
  (tip: allow refrigerant to enter system before power is applied)
- **Verify refrigerant charge based on line set length**
  (tip: never install less than 16' of line set)
  (tip: when exceeding 25' buy correct line set to avoid connections)
  (tip: if adding charge an electronic scale must be used)
  (tip: never use unitary gauges on LG Systems)
- **Start Up system**
  (tip: always start system in cooling mode)
  (tip: if adding refrigerant start system and add slowly to avoid flashing)
- **Verify Cooling and fan operations**
  (tip: set remote to user friendly settings)
- **Verify Heating and fan operations**
  (tip: If outside temperature is over 75 heat function will not operate)

Start Up Verification

- Verify operation in all modes possible
- Verify system is removing condensation to outside or drain termination
- Go over Remote Control operation with Homeowner
  (tip: explain remote does not reflect room temp unless selected)
  (tip: explain indoor units run 24/7 and sense air temps across coil)
  (tip: explain plasma filter if included)
  (tip: explain error code locations)
- Discuss needs for maintenance
  (tip: condensation management is number 1 service issue)
  (tip: suggest bi-annual maintenance to prolong life cycle)
- Record installation Specifics
  (tip: record line length and refrigerant charge if added)
  (tip: record model and serial number for future reference)
  (tip: record installation date)

LG TECH SUPPORT STEPS

1. Distributor sends to the Contractor the Installation Check List and Procedures.
2. Contractor will Contact and Send Installation Check List to your Distributor's Contact for review.
3. LG System Questions should be asked by the Distributor's TSA.
4. If No Solution a Site visit maybe necessary with Distributor's TSA and LG Representative.
5. If No Solution call Tech Support (888-865-3026 Prompt #3)
6. Review the Installation Check List and Problem Experienced with Tech Support and Trouble Shoot the LG System **(Ask if not given a CASE NUMBER) The Case Number is necessary for assistance with the LG Representative.**
7. Discuss with the Distributor the LG Technician's findings and the Distributor can assist you with the next step (Replacement of Parts or a New Unit Approvals)
8. If Problem is not resolved, immediately contact area LG Representative with the Case Number and a situation up to date.
9. **Under no circumstance remove or replace unit without approval and documentation from LG Electronics. Warranty claim credit will be denied.**
10. **LGEAGI will give an RA for replacement if decided not repairable.**

Program Number: US-0001016255 / 2013-AE-COP-CC-0111

Field Evaluation Check Sheet (General Installation)

Indoor Unit Model Number: _____

Indoor Unit Serial Number: _____

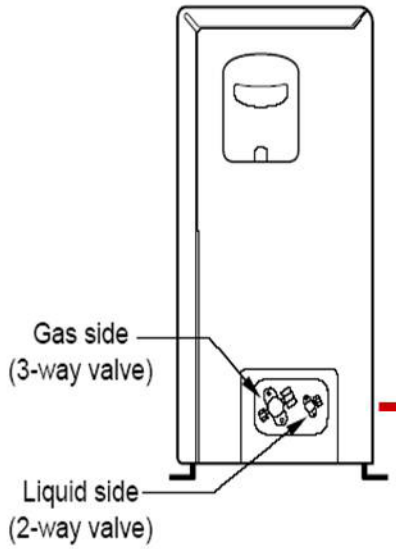
OUTDOOR AMBIENT TEMP.
_____ **°F**

INDOOR AMBIENT TEMP.
_____ **°F**

SET TEMP.
_____ **°F**

Lineset Length
_____ Feet

Position of indoor unit. Include distance from floor, ceiling, and side walls.



Outdoor Unit Model Number:_____

Outdoor Unit Serial Number: _____

Program Number: US-0001016255 / 2013-AE-COP-CC-0111

Job Site Evaluation Report

Installation Date:

Project Name and Address:

Installation / Service Contractor:

System Model No.:

Indoor / Outdoor Model No.:

Indoor / Outdoor Serial No.:

Site Visit Conducted By:

Line Voltage Supply:

Interconnecting Wiring Size:

Condensation Pump Model No.:

Interconnecting Wiring Length:

Interconnecting Wiring Shielded:

Details of System Orientation and Line Set:

Interconnecting Wiring Grounded:

Refrigerant Charge:

Additional comments regarding system installation, line set, and piping traps:

LG Job Site Evaluation Report

List All Replacement Parts / Components on System:

Ambient Outdoor Temperature (DB):

Ambient Indoor Temperatures (WB / DB):

Suction Pressure / PSIG:

Suction Line Temperature:

System Superheat:

Discharge Air Temperature Indoor Coil:

Discharge Line Temperature Condenser:

Delta T Indoor Coil:

Delta T Outdoor Coil:

Additional comments regarding operating conditions:

LG Job Site Evaluation Report

Corrective Action

List Issues Discovered:

Photos:

Corrective Action Item(s) Suggested:

Job Site Evaluation Report

Comments and Observations

Detailed Overview of Site Visit:

System Air Conditioning Technical Support

888-865-3026 (follow prompt for Tech Support then Heating & Air Conditioning)

Ductless Air Conditioner Error Codes

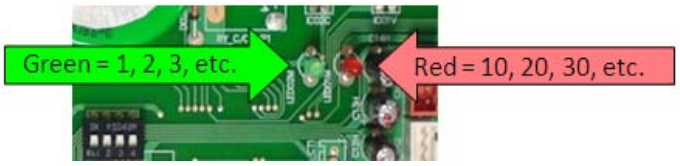
NOTES

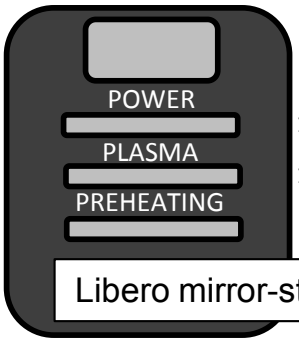
01, 1, C1 and CH01 are all the same code **IDU = Indoor Unit** **ODU = Outdoor Unit** **PCB = Printed Circuit Board**

Inverter units all have a V in the model number, such as LSU121HSV or LAN186HV and use a 3-phase compressor.
Single phase unit feed is converted to 3-phase to power the compressor in the ODU PCB.

This list is based on inverter units as well as 10 & 13 SEER unit error code exceptions will be noted.
Full thermistor information including proper checkout procedure is at the end of this document.

Inverter outdoor unit LEDs flash red then green
(for example, 6 red then 7 green is #67)

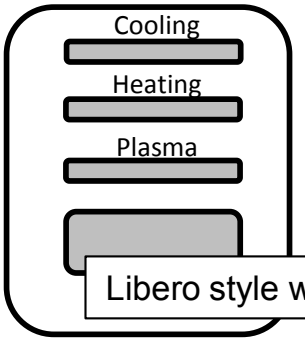




1 digit

10 digit (10, 20, 30, etc)

Libero mirror-style indoor unit

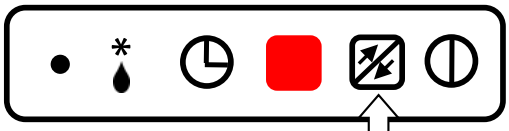


1 digit

10 digit (10, 20, 30, etc)

Libero style white indoor unit

1 digit



10 digit (10, 20, 30, etc)

Ceiling cassette indoor unit

10 digit (10, 20, 30, etc)

1 digit

10 & 13 SEER indoor units

Beige & mirror 13 SEER & inverter indoor units

ERROR CODES UPDATED TO FEBRUARY 2012

0	Error code not used
CO	PCB sees IDU air thermistor as **open or shorted**. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
CA	PCB sees ODU discharge pipe thermistor as **open or shorted.** Must be 244,000? at 20°C/68°F, 24.400? at 90°C/194°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
CC	13 SEER Flex Multi EEPROM Sum Check Error. Too much combined capacity of IDUs in relation to ODU. 130% maximum.
Cd	Reactor or electronic noise filter failure. Copper coil around magnet in ODU-replace this item. Same error code as 13
CE	Compressor Phase Current Error, see 14
CL	Child Lock. Press Timer & Min buttons simultaneously for 5 seconds to engage/disengage function.
HL	Condensate pump float switch risen/open. Check drain pan is empty, check pump is working OK. If no pump, ensure blue jumper plug is inserted in IDU PCB plug CN_FLOAT. If applicable, ensure Dry Contact Interface is in "OFF" condition. Check status and adjust as necessary. With Central Controller, if ALL system functions are locked, HL will appear and is not an error code.
Po	Jet Cool Mode: To cancel, press Jet Cool, Fan Speed or Set Temperature button.
PF	PTAC Freeze Protection mode, indoor air thermistor shows PCB room temp less than 5°C/40°F. If room is not this temp, air thermistor = 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug
1	Inverter: PCB sees IDU air thermistor as **open or shorted**. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
	10 & 13 SEER: PCB sees IDU pipe OR air thermistor as **open or shorted**. Pipe = 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Air = 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change
	PTAC: PCB sees IDU air thermistor as **open or shorted**. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
2	Inverter: PCB sees IDU inlet pipe thermistor as **open or shorted**. Must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB. 10 & 13 SEER: PCB sees IDU pipe thermistor OR air thermistor as **open or shorted**. Pipe = 5,000? at 25°C / 77°F & 10,000? at 10°C/50°F. Air = 10,000? at 25°C/77°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug PTAC: PCB sees IDU pipe thermistor as **open or shorted**. Pipe must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
3	10 & 13 SEER Flex Multi units (no V in model number): Different mode operation-IDUs must be set all to heat or all to cool. Inverter units (with V in model #): Communication error between IDU & hard-wired controller. Ensure only LG factory wire is used & properly plug connection from IDU PCB - wire stub - wire - controller. PTAC: PCB sees outdoor air thermistor as **open or shorted**. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
4	LAxxxHV & LSxxxHPV: ODU PCB Heat Sink thermistor open, shorted or over-heated to 95°C. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
	Models beginning with AR or LMDNxxxHV: IDU Condensate pump float switch risen / opened. Check drain pan is empty & pump working. If no pump, ensure blue jumper plug inserted in IDU PCB plug CN_FLOAT.
	PTAC: PCB sees outdoor air thermistor as open or shorted. Pipe must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
5	Communication Error-check wiring (123 or 1234 at ODU MUST BE SAME COLOR as 123 or 1234 on IDU), remove condensate Inverters: Voltage on wires 2 & 3 must float between approximately 0 - 65V DC. 10 & 13 SEER single IDU/single ODU (no V in model #): Voltage on 3 & 4 wires must float between 0-12V DC. 10 & 13 SEER Flex Multi units (LM model #s with no V in model #): Voltage on 1 & 2 wires must float between 0-12VDC. Generally, steady 0V DC is failed ODU PCB & steady high voltage DC is failed IDU PCB. All units: Ensure ABSOLUTELY ZERO ? between wires, wires to ground or wires to shield. Electrically check all fuses at IDU / Inverter Flex Multi (LMUxxxHV): Ensure IDU wires are not switched between IDUs. 1A & 1B on one terminal, 2A & 2B on one terminal, 3A alone, 3B alone, 3C alone, 3D alone. PTAC: Mode error
6	LS902HPV & LS122HPV: DC Peak Error-verify proper 208V or 240V AC feeding unit, verify 3 compressor wires not switched, verify compressor not seized, verify 1-4? between all compressor terminals. All other inverters: PCB sees IDU outlet pipe thermistor as **open or shorted**. Must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB. PTAC: Set point error
7	Flex Multi: Different mode operation-indoor units must be set either all to heat or all to cool. LS902HPV, LS122HPV, LA09xHV, LA12xHV: Compressor Over Amperage-verify proper 208V or 240V AC feeding unit, ensure unit is not operating in high-head situation, verify 1-4? between all compressor terminals. PTAC: Thermistor error-verify proper DIP switch settings. If used, verify wall-mount thermostat properly wired for heat pump/cool-only. With cool only unit: GH, B and O terminals are not used.

8	IDU fan motor not rotating/proving rotation. Verify fan motor plugged in correctly & fan rotates freely. If fan is running at normal operational speed, motor sensing circuit has failed-replace motor. LS902HPV, LS122HPV, LA09xHV, and LA12xHV: if motor is not rotating, verify 310V DC on motor wires that are separated by empty terminals on plug. 0V DC = failed PCB, 310V DC = failed motor. 10 & 13 SEER: if motor is not rotating, verify 19-36V DC between DC common & fan leg (wire designation varies by 10 SEER, 13 SEER single & 13 SEER Flex Multi-see appropriate service manual).
9	LS902HPV, LS122HPV LA09xHV, LA12xHV: ODU fan motor not rotating/proving rotation-verify plugged in properly-if motor is not rotating, verify 310V DC on motor wires that are separated by empty terminals on plug. 0V DC = failed PCB, 310V DC = All other Inverter units (V in model #): Indoor unit EEPROM error – failed EEPROM or mismatched IDU / ODU. Inverter Flex Multi LMUxxxHV: more than 130% of IDUs in relation to ODU.
10	LS902HPV, LS122HPV LA09xHV, and LA12xHV: PCB sees ODU discharge pipe thermistor **open/shorted.** Must be 244,000? at 20°C/68°F & 24.400? at 90°C/194°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB. Inverter: IDU fan failure: If motor is not rotating, verify 310V DC on motor wires that are separated by empty terminals on plug. 0V DC=failed PCB, 310V DC=failed motor. 10 & 13 SEER 36V DC IDUs: IDU fan failure: if motor is not rotating, verify 19-36V DC between DC common & fan leg (wire designation varies by 10 SEER, 13 SEER single & 13 SEER Flex Multi-see appropriate service manual).
11	Multi V Commercial Product only, not used in DFS
12	PCB sees IDU middle pipe thermistor as **open or shorted**. Must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
13	Reactor or electronic noise filter failure. Copper coil around magnet in ODU-replace this item. Same error code as Cd
14	Compressor Phase Amperage Error
	15, 16, 17, 18, 19, 20 Error code not used
21	Inverter compressor high amperage-verify proper 208/240V AC feeding unit, ensure unit is not operating in high-head situation, verify 3 compressor windings are all equal at 1-4? , verify 0? to ground, check amperage.
22	Inverter unit high amperage-verify proper 208/240V AC feeding unit, ensure unit is not operating in high-head situation, verify 3 compressor windings are all equal at 1-4? , verify 0? to ground, check amperage.
23	Inverter DC link voltage too low-verify proper 208/240V AC feeding unit-must be 193-253V AC. Use service manual to verify if
24	High or low pressure switch open. Low pressure opens at 14 PSI, high pressure at 600 PSI. Flex Multi-ensure indoor unit wiring is not switched, sending refrigerant to wrong coil with no IDU fan.
25	Low voltage or high voltage feeding unit-verify proper 208/240V AC feeding unit. Voltage feed must be 193-253V AC.
26	Inverter compressor seized or not proving rotation. PCB converts single phase to 3 phase for compressor. Verify 3 compressor windings are all equal at 1-4?, verify 0? to ground, verify equal voltage on compressor 3-phase legs. Verify no refrigerant flow restrictions.
27	Inverter compressor amperage over 100A for a split second-verify proper 208/240V AC feeding unit, ensure unit is not operating in high-head situation, verify 3 compressor windings are all equal at 1-4?, verify 0? to ground, check amperage, check reactor connections and verify reactor resistance is less than 1?.
28	Inverter DC link voltage too low-verify proper 208/240V AC feeding unit. Voltage feed must be 193-253V AC. Use appropriate service manual to verify if PCB has failed.
29	Inverter compressor high amperage-verify proper 208/240V AC feeding unit, ensure unit is not operating in high-head pressure condition, verify 3 compressor windings are all equal at 1-4? , verify 0? to ground, check amperage
	30, 31 Error code not used
32	Inverter compressor 105°C/220°F + in discharge pipe. Verify proper refrigerant charge & ensure unit is not operating in high-head temperature situation. Generally will be refrigerant undercharge. Thermistor = 244,000? at 20°C/68°F, 24.400? at 90°C/194°F. Ohm thermistor in water, ensure it plugs in properly. (LS302HPV, LS305HV, LS307HV have 1 inverter & 1 single
33	Single speed compressor 105°C/220°F + in discharge pipe. Verify proper refrigerant charge & ensure unit is not operating in high-head temperature situation. Generally will be refrigerant undercharge. Thermistor = 244,000? at 20°C/68°F, 24.400? at 90°C/194°F. Ohm thermistor in water, ensure it plugs in properly. (LS302HPV, LS305HV, LS307HV have 1 inverter & 1 single
34	High pressure switch opened- over 600 PSI
35	Low pressure switch opened- under 14 PSI
	36, 37, 38, 39 Error code not used
40	Inverter PCB amperage sensing circuit failure. Use appropriate service manual to test PCB.
41	PCB sees inverter compressor discharge pipe thermistor as open or shorted. Thermistor must be 244,000? at 20°C/68°F, 24.400? at 90°C/194°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
42	Low pressure switch opened- under 14 PSI
43	High pressure switch opened- over 600 PSI
44	PCB sees ODU air sensor as open or shorted. Must be 5,600? at 38°C/100°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
45	PCB sees ODU condensor coil middle (if unit has middle sensor) or exit pipe (liquid line) thermistor as **open or shorted**. Must be 2,800? at 38°C/100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection,
46	PCB sees ODU suction line thermistor as **open or shorted**. Must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.

47	PCB sees ODU single-speed compressor discharge pipe thermistor as **open or shorted.** Must be 244,000? at 20°C/68°F, 24.400? at 90°C/194°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB.
48	PCB sees ODU coil outlet (liquid line) thermistor as **open or shorted.** 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug connection, change PCB. 13 SEER Split/Multi Split = Outdoor unit discharge and air sensor both unplugged.
49	Verify AC voltage to ODU is 193-253V AC. If OK check fuses, if fuses OK, replace outdoor main PCB
	50 Error code not used
51	Unit mismatch. Check model number of units do not exceed maximum. Flex Multi cannot exceed 130%
52	ODU communication error between inverter PCB and main outdoor unit PCB. Check wiring & fuses-verify LEDs on both PCBs are lit. If OK, either inverter or main PCB defective
53	Communication error-Ensure that #3 communication wire is properly plugged into ODU PCB. See error code 5
	55, 56 Error code not used
54	3-phase wiring issue
57	Communication error between outdoor main PCB and inverter PCB. Check wiring & fuses-verify LEDs on both PCBs are lit. If OK, either inverter or main PCB defective
	58, 59 Error code not used
60	EEPROM failure: Replace PCB if the EEPROM is non-removable.
61	PCB sees Condenser coil over 65°C / 149°F. Code is sensed at ODU in cool mode and IDU in heat mode. Verify coil, filters & blower wheel are clean and airflow OK. Check system pressures for non-condensibles. Verify system is not running in high condensor coil temperature condition. Verify ALL thermistors on condensor coil (IDU/ODU depending on mode) are accurate. Can be caused by discrepancy among thermistors on same coil (ODU coils = 1-2 thermistors, IDU coils 1-3 thermistors). Must be 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug
62	Inverter ODU PCB heat sink 85°C/185°F +. Verify air flow across heat sink, verify PCB tight to heat sink, use thermal paste. Thermistor = 10,000? at 25°C/77°F & 20,700? at 10°C/50°F. Ohm thermistor in water, with perfect thermistor & plug
63	Condensor Coil Pipe Sensor Temp Low (opposite to Error Code 61). Code is sensed at ODU in cool mode & IDU in heat mode. Verify system is not running in low condensor coil temperature condition. Verify ALL thermistors on condensor coil (IDU/ODU depending on mode) are accurate-can be caused by discrepancy among thermistors on same coil (ODU coils = 1-2 thermistors, IDU coils 1-3 thermistors). 2,800? at 38°C / 100°F & 10,000? at 10°C/50°F. Ohm thermistor in water, with
	64 Error code not used
65	Outdoor unit inverter fin temperature sensor fault. Disconnect from PCB measure resistance. Must be 10,000? at 25°C / 77°F.
	66 Error code not used
67	ODU Fan Motor seized, or rotation sensing circuit failure. Check motor for mechanical and/or electrical failure. Check fuse in motor cable if unit has one. If motor is not rotating, verify 310V DC on motor wires that are separated by empty terminals on plug. 0V DC = failed PCB, 310V DC = failed motor.
73	Inverter compressor drawing over 48 amps
89	Flex Multi LMUxxxHV units. DIP Switch 3 on outdoor PCB needs to be in OFF position.

Proper method for ohm testing of thermistors

Unplug thermistor from PCB, place probe in cold or ice water, measure the water temperature and compare ohm reading to ohm chart. Repeat with hot water to verify thermistor accuracy across a broad temperature range.

LG Suction & Liquid Line Thermistor Ohm Chart

Suction & Liquid thermistors (called Tube on previous documents) are used on **all piping & coils except the compressor discharge pipe**, whether on an indoor unit or an outdoor unit.

°C	°F	KΩ
OPEN		100
-25	-13	72.3
-20	-4	52.8
-15	5	39
-10	14	29.1
-5	23	22
0	32	16.8
2	35.6	15.1
4	39.2	13.6
6	42.8	12.3
8	46.4	11.1
10	50	10
12	53.6	9.1
14	57.2	8.3
16	60.8	7.5
18	64.4	6.8
20	68	6.2
22	71.6	5.7
24	75.2	5.2
25	77	5
26	78.8	4.7
27	80.6	4.5
28	82.4	4.3
29	84.2	4.1
30	86	4
31	87.8	3.8
32	89.6	3.6

°C	°F	KΩ
33	91.4	3.5
34	93.2	3.3
35	95	3.2
36	96.8	3.1
37	98.6	2.9
38	100.4	2.8
39	102.2	2.7
40	104	2.6
41	105.8	2.5
42	107.6	2.4
43	109.4	2.3
44	111.2	2.2
45	113	2.1
46	114.8	2.08
47	116.6	2.01
48	118.4	1.93
49	120.2	1.86
50	122	1.79
51	123.8	1.72
52	125.6	1.66
53	127.4	1.6
54	129.2	1.54
55	131	1.48
60	140	1.24
70	158	0.87
80	176	0.63
SHORT		0.4

LG Air Thermistor Ohm Chart

All air thermistors have **black plastic tips**, whether for an indoor or outdoor unit. Indoor air thermistors will be located on the right hand side of the indoor unit or in the return air flow. Outdoor air thermistors will be located in open air on the rear of the outdoor unit coil.

Air thermistors have been labeled "Ambient" in previous documents.

°C	°F	KΩ
OPEN		200
-10	14	62.4
-9	15.8	58.8
-8	17.6	55.4
-7	19.4	52.3
-6	21.2	49.4
-5	23	46.6
-4	24.8	44.1
-3	26.6	41.6
-2	28.4	39.3
-1	30.2	37.2
0	32	35.2
1	33.8	33.3
2	35.6	31.6
3	37.4	29.9
4	39.2	28.3
5	41	26.9
6	42.8	25.5
7	44.6	24.2
8	46.4	22.9
9	48.2	21.8
10	50	20.7
11	51.8	19.7
12	53.6	18.7
13	55.4	17.8
14	57.2	16.9
15	59	16.1
16	60.8	15.3
17	62.6	14.6
18	64.4	13.9
19	66.2	13.2
20	68	12.6
21	69.8	12
22	71.6	11.5
23	73.4	10.9
24	75.2	10.4
25	77	10
26	78.8	9.5
27	80.6	9.1
28	82.4	8.7
29	84.2	8.3
30	86	7.9
31	87.8	7.6
32	89.6	7.2
33	91.4	6.9
34	93.2	6.6
35	95	6.3
36	96.8	6.1
37	98.6	5.8
38	100.4	5.6
39	102.2	5.3
40	104	5.1
45	113	4.2
SHORT		0.8

LG Discharge Pipe Thermistor Ohm Chart

Discharge thermistor will **only** be located in the discharge pipe immediately off the compressor.
Only discharge thermistors always have a white braided insulation.

°C	°F	kΩ
20	68	244
30	86	164.8
40	104	80.6
60	140	58.3
70	158	42.9
80	176	32.1
90	194	24.4
100	212	18.9
110	230	14.8
120	248	11.7

LG System Air Conditioning Technical Support

888-865-3026

(follow prompt for Tech Support then Heating & Air Conditioning)

Keyword	Response
00	Text the 1, 2 or 3 digit fault code number only. I.e. If you see fault code CH07 on your indoor unit or R/Controller, only type 7 or 07 in your text message.
01	Indoor unit return air sensor fault. Disconnect sensor from PCB and measure resistance. 8 kOhm at 30C and 13 kOhm at 20C if not replace sensor
1	Indoor unit return air sensor fault. Disconnect sensor from PCB and measure resistance. 8 kOhm at 30C and 13 kOhm at 20C if not replace sensor
02	Indoor Pipe Sensor or Outdoor Sensor Assy fault, Open or Short. Disconnect from PCB and measure resistance. Air sensor = 10 kOhm at 25C, Pipe sensor = 5 kOhm at 25C. If not replace sensor.
2	Indoor Pipe Sensor or Outdoor Sensor Assy fault, Open or Short. Disconnect from PCB and measure resistance. Air sensor = 10 kOhm at 25C, Pipe sensor = 5 kOhm at 25C. If not replace sensor.
03	Remote controller comms error. Check wired correctly, if so check dipswitch in RC. Set to Sg for 1 unit, or Gr for group then reset power
3	Remote controller comms error. Check wired correctly, if so check dipswitch in RC. Set to Sg for 1 unit, or Gr for group then reset power
04	RAC Product = Heat Sink Sensor Error, Open/Short Cct or over 95C. Commercial Product = Condensate pump float switch risen. Check drain pan is empty, check pump is working OK. If no pump check blue jumper plug is inserted in socket CN Float.
4	RAC Product = Heat Sink Sensor Error, Open/Short Cct or over 95C. Commercial Product = Condensate pump float switch risen. Check drain pan is empty, check pump is working OK. If no pump check blue jumper plug is inserted in socket CN Float.
05	Comms Error, check your wiring, remove external pumps. Split/Multi - check volts from terminal N to 3 = 0 - 65 Vdc, Multi V - 4 Vdc terminals 3 and 4
5	Comms Error, check your wiring, remove external pumps. Split/Multi - check volts from terminal N to 3 = 0 - 65 Vdc, Multi V - 4 Vdc terminals 3 and 4
06	Indoor unit coil sensor fault. Disconnect from PCB measure resistance. 10 kOhm at 10C and 4 kOhm at 30C. if not replace sensor. Split = text 21
6	Indoor unit coil sensor fault. Disconnect from PCB measure resistance. 10 kOhm at 10C and 4 kOhm at 30C. if not replace sensor. Split = text 21
07	Multi Splits and Multi V = indoor unit is set to run in a different mode from the master indoor unit. Set ALL indoor units to cooling or ALL to heating to clear. Splits = Compressor Over Current (CT2), also see Code 06.
7	Multi Splits and Multi V = indoor unit is set to run in a different mode from the master indoor unit. Set ALL indoor units to cooling or ALL to heating to clear. Splits = Compressor Over Current (CT2), also see Code 06.
08	RAC Indoor unit BLDC Fan problem. This is caused by the Indoor fan being locked. Check fan motor is plugged in correctly, Electrically & Mechanically sound. Check the fan motor turns freely, check the AC Voltage supplied to the fan motor, this will vary from 120 V ac at low speed to 170V AC at high speed. If no Voltage is present the the PCB is faulty, if Voltage is present the fan motor will be Faulty.
8	RAC Indoor unit BLDC Fan problem. This is caused by the Indoor fan being locked. Check fan motor is plugged in correctly, Electrically & Mechanically sound. Check the fan motor turns freely, check the AC Voltage supplied to the fan motor, this will vary from 120 V ac at low speed to 170V AC at high speed. If no Voltage is present the the PCB is faulty, if Voltage is present the fan motor will be Faulty.
09	Split = Outdoor unit fan problem. Check Outdoor fan motor is plugged in, Electrically & Mechanically sound, if not replace motor, otherwise replace PCB. Multi V = Indoor unit EEPROM error - Replace the indoor unit PCB, and then make sure to do Auto addressing and input the address of central control.
9	Split = Outdoor unit fan problem. Check Outdoor fan motor is plugged in, Electrically & Mechanically sound, if not replace motor, otherwise replace PCB. Multi V = Indoor unit EEPROM error - Replace the indoor unit PCB, and then make sure to do Auto addressing and input the address of central control.
10	RAC Product: Compressor discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C, 168 kOhm at 30C. Multi Fdx & Multi V text 8
11	Multi V indoor unit not connected to an outdoor unit. Check comms wiring is correct, and check initialisation has been carried out correctly
12	RAC Product = EEPROM Sum Check Error, text 60 for help.
13	RAC Product = PSC (Reactor) Error, text 27 for help.
14	RAC Product = Compressor Phase Current Error
15	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
16	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
17	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
18	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
19	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
20	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
21	Inverter compressor run current high. Check compressor windings all equal 1 to 4 Ohms, Check to earth 50 MOhm minimum, check run current
22	Inverter compressor run current high. Check compressor windings all equal 1 to 4 Ohms . Check to earth 50 MOhm minimum, check run current
23	Inverter dc voltage low. Check dc voltage of capacitors 300 Vdc for 1Ph and 600 Vdc for 3Ph. If OK change outdoor inverter PCB
24	Splits and Multi Splits = High or low pressure trip. Low at 1 bar High at 35 bar check pressures. Multi V = High pressure trip.
25	Check power supply voltage to the outdoor unit is correct (1ph ?220 Vac ±10% or 3ph ?380 Vac ±10%). If OK, check fuses, if fuses are OK replace outdoor main PCB
26	Inverter compressor seized. Check compressor windings all equal resistance 1 to 4 Ohms, check to earth 50 MOhm minimum, check run current and Inverter outputs
27	Inverter current irregularity. Check inverter PCB, check reactor connections and its resistance is less than 1 ohm.
28	Inverter dc voltage too high. Check dc voltage of capacitors 300 Vdc for 1Ph and 600 Vdc for 3Ph. If OK change outdoor inverter PCB
29	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
30	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
31	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
32	Inverter compressor discharge temperature too high. If over 105°C, check refrigerant charge
33	Excessive rise of standard compressor discharge temperature. If over 105°C check refrigerant charge
34	Excessive high pressure rise, over 35 bar at HP sensor. Check pressures, check coils, and filters are clean check for OFN in system pipework
35	Excessive low pressure drop under 1 Bar at LP sensor. Check pressures, and check service valves open
36	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
37	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
38	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
39	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
40	Inverter ac current abnormal. Check compressor windings all equal resistance 1 to 4 Ohms, check to earth 50 MOhm minimum, check run current and inverter outputs
41	Inverter compressor discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168 kOhm at 30°C.
42	Low pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 4 bar up to 5 Vdc = 32 bar
43	High pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 8 bar up to 2.5 Vdc = 37 bar
44	Outdoor unit air sensor fault. Disconnect from PCB and measure resistance. 8 kOhm at 30C and 13 kOhm at 20C. If OK replace PCB, if not replace sensor
45	Outdoor unit coil sensor fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
46	Outdoor unit suction sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
47	Compressor discharge sensor fault. Disconnect from PCB measure resistance. 237 kOhm at 20°C and 168 kOhm at 30°C. If OK replace PCB, if not replace sensor
48	Split/Multi Split = Outdoor unit discharge and air sensor both unplugged. Multi V = Outdoor unit coil sensor. Text 45 for diagnostics
49	Check power supply voltage to the outdoor unit is correct (1ph ?220 Vac ±10% or 3ph ?380 Vac ±10%). If OK check fuses, if fuses OK, replace outdoor main PCB
50	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
51	Unit mismatch. Check model number of units do not exceed maximum. Multi V - also check Sub outdoor unit dipswitch settings
52	Communication error between inverter PCB and main outdoor unit PCB. Check wiring fuses and LEDs . If OK either inverter or main PCB defective

53	Comms error indoor to outdoor unit. Check your wiring . Split and Multi - check voltage from terminal N to 3 = 0 - 65 Vdc, Multi V - 4 Vdc terminals 3 and 4
54	Reverse or open phase. Check all 3 phases are present and correct. If correct voltage appears at all three phases, swap any two to cure the fault
55	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
56	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
57	Comms error between outdoor main PCB and inverter PCB. Check wiring fuses and LEDs are lit. If OK either inverter or main PCB defective
58	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
59	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
60	Outdoor unit PCB EEPROM failure, try removing EEPROM and refitting if removable (possible contact fault), otherwise replace PCB if the EEPROM is non-removable.
61	Condenser coil over 65°C. Check coil and filters are clean and free from debris, and airflow is OK. Check system pressures for non-condesables
62	Inverter over 85°C. Check air flow across heat sink, check inverter tight to heatsink use thermal paste. Multi V - check inverter cooling fan
63	Multi F(DX) - "Cond. Pipe Sensor Temp. Low" (opposite to Error Code 61). Check Temperature/Resistance reading and replace sensor if found to be faulty. If sensor okay, check for cause of low temperature and rectify.
64	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
65	Outdoor unit inverter fin temperature sensor fault. Disconnect from PCB measure resistance. 8 kOhm at 30°C and 13 kOhm at 20°C
67	Outdoor Fan Motor siezed, or rotation sensing circuit failure. Check motor for mechanical and/or electrical failure, if okay replace pcb.
100	Excessive discharge temperature rise 105°C Sub condenser 1 standard compressor. Check refrigerant
101	Excessive discharge temperature rise 105°C Sub condenser 1 standard compressor. Check refrigerant
102	Excessive discharge temperature rise 105°C Sub condenser 2 standard compressor. Check refrigerant
103	Excessive discharge temperature rise 105°C Sub condenser 2 standard compressor. Check refrigerant
104	Communication error between Main and Sub outdoor units. Check comms wiring and power to all outdoor units
105	Communication error between outdoor main PCB and fan PCB. Check plug connections and LEDs. If OK, replace either main or fan PCB
106	Outdoor unit fan motor high current. Check fans rotate freely, and are connected correctly
107	Outdoor unit low voltage to fan PCB. Check 300 Vdc supply, check fuses and plug connections. If OK, replace fan PCB
108	Communication error between outdoor main PCB, and fan PCB. Check plug connections and LEDs. If OK replace either main or fan PCB
109	Sub 1 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
110	Sub 1 reverse or open phase. Check all 3 phases are present and correct. If correct voltage appears at all three phases, swap any two to cure the fault
111	Communication error between Main and Sub outdoor units. Check comms wiring and power to all outdoor units
113	Main outdoor unit liquid pipe sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
114	Main outdoor unit Subcool inlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
115	Main outdoor unit Subcool outlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
116	Sub 1 high pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 8 bar up to 2.5 Vdc = 37 bar
117	Sub 1 low pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 4 bar up to 5 Vdc = 32 bar
118	Sub 1 outdoor unit air sensor fault. Disconnect from PCB and measure resistance. 8 kOhm at 30°C and 13 kOhm at 20°C. If OK replace PCB, if not replace sensor
120	Sub 1 outdoor unit suction sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. if not replace sensor
121	Sub 1 compressor 1 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168 kOhm at 30°C. if not replace sensor
122	Sub 1 compressor 2 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168 kOhm at 30°C. if not replace sensor
123	Sub 1 outdoor unit coil sensor A fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
124	Sub 1 outdoor unit coil sensor B fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
125	Sub 1 outdoor unit liquid pipe sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
126	Sub 1 outdoor unit Subcool inlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
127	Sub 1 outdoor unit Subcool outlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
128	Sub 2 high pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 8 bar up to 2.5 Vdc = 37 bar
129	Sub 2 low pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 4 bar up to 5 Vdc = 32 bar
130	Sub 2 outdoor unit air sensor fault. Disconnect from PCB and measure resistance. 8 kOhm at 30°C and 13 kOhm at 20°C. If OK replace PCB, if not replace sensor
132	Sub 2 outdoor unit suction sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C.if not replace sensor
133	Sub 2 compressor 1 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168kOhm at 30°C. if not replace sensor
134	Sub 2 compressor 2 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168kOhm at 30°C.if not replace sensor
135	Sub 2 outdoor unit coil sensor A fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
136	Sub 2 outdoor unit coil sensor B fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
137	Sub 2 outdoor unit liquid pipe sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
138	Sub 2 outdoor unit Subcool inlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
139	Sub 2 outdoor unit Subcool outlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
140	Sub 2 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
141	Sub 2 reverse or open phase. Check all 3 phases are present and correct. If correct voltage appears at all three phases, swap any two to cure the fault
142	Communication error between Main and Sub outdoor units. Check comms wiring and power to all outdoor units
143	Sub 1 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
144	Sub 1 excessive drop of low pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
145	Sub 2 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
146	Sub 2 excessive drop of low pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
147	Sub 1 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%).check fuses, if fuses OK replace outdoor main PCB
148	Sub 1 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%). check fuses, if fuses OK replace outdoor main PCB
149	Sub 2 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%). check fuses, if fuses OK replace outdoor main PCB
150	Sub 2 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%). check fuses, if fuses OK replace outdoor main PCB
151	Faulty 4 way valve. Check solenoid coil and output from PCB. If OK, mechanical failure.
152	Excessive discharge temperature rise 105°C Sub condenser 2 standard compressor. Check refrigerant
153	Excessive discharge temperature rise 105°C Sub condenser 2 standard compressor. Check refrigerant
154	Sub 3 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
155	Sub 3 reverse or open phase. Check all 3 phases are present and correct. If correct voltage appears at all three phases, swap any two to cure the fault
156	Communication error between Main and Sub outdoor units. Check comms wiring and power to all outdoor units
157	Sub 3 high pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 8 bar up to 2.5 Vdc = 37 bar
158	Sub 3 low pressure sensor fault. Check dc voltage between white and black cable on plug. Multi V: 1 Vdc = 4 bar up to 5 Vdc = 32 bar

159	Sub 3 outdoor unit air sensor fault. Disconnect from PCB and measure resistance. 8 kOhm at 30°C and 13 kOhm at 20°C. If OK replace PCB, if not replace sensor
161	Sub 3 outdoor unit suction sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. if not replace sensor
162	Sub 3 compressor 1 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168 kOhm at 30°C. if not replace sensor
163	Sub 3 compressor 2 discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C and 168 kOhm at 30°C.if not replace sensor
164	Sub 3 outdoor unit coil sensor A fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
165	Sub 3 outdoor unit coil sensor B fault. Disconnect from PCB measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C. If OK replace PCB, if not replace sensor
166	Sub 3 outdoor unit liquid pipe sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
167	Sub 3 outdoor unit Subcool inlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
168	Sub 3 outdoor unit Subcool outlet sensor fault. Disconnect from PCB and measure resistance. 10 kOhm at 10°C and 4 kOhm at 30°C
169	Sub 3 excessive rise of high pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
170	Sub 3 excessive drop of low pressure. Check pressures, check for non condensables, check heat exchanger coil is free from debris
171	Sub 3 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%). check fuses, if fuses OK replace outdoor main PCB
172	Sub 3 check power supply voltage to the outdoor unit is correct (1ph 220 Vac ±10% or 3ph 380 Vac ±10%). check fuses, if fuses OK replace outdoor main PCB
173	Main outdoor unit standard compressor not starting. Check output from main PCB, check contactor, and check wiring connections. If OK compressor faulty
174	Sub 1 standard compressor 1 not starting. Check output from main PCB, check contactor, and check wiring connections. If OK compressor faulty
175	Sub 1 standard compressor 2 not starting. Check output from main PCB, check contactor, and check wiring connections. If OK compressor faulty
176	Sub 2 standard compressor 1 not starting. Check output from main PCB, check contactor, and check wiring connections. If OK compressor faulty
177	Sub 2 standard compressor 2 not starting. Check output from main PCB, check contactor, and check wiring connections. If OK compressor faulty
204	Comms Error between Outdoor Unit and HR Box No1. 1. Defective connection in HR unit power supply and transmission connection 2. Wrong setting of the HR unit Rotary switch and Dip switch 3. Defective HR unit PCB
208	Comms Error between Outdoor Unit and HR Box No2. 1. Defective connection in HR unit power supply and transmission connection 2. Wrong setting of the HR unit Rotary switch and Dip switch 3. Defective HR unit PCB
212	Comms Error between Outdoor Unit and HR Box No3. 1. Defective connection in HR unit power supply and transmission connection 2. Wrong setting of the HR unit Rotary switch and Dip switch 3. Defective HR unit PCB
240	Central controller wiring error. Check all comms wiring, including between controller and CNU, and IP addresses. If OK possible defective CNU
241	Central controller data sending error. Either defective CNU or Central controller initialisation failure
242	Central controller data receiving error. Either defective CNU or Central controller initialisation failure
243	Central controller. Comms cable too long or picking up external electrical noise. If OK, mismatching of controllers, or defective CNU
244	Central controller data receiving time out. Either defective CNU or Central controller initialisation failure
245	Central controller data sending time out. Either defective CNU or Central controller initialisation failure
246	Central controller data receiving time out. Either defective CNU or Central controller initialisation failure
250	Central controller data receiving error. Either comms cable picking up external electrical noise, or defective CNU
251	Central controller receiving no data. Either comms cable picking up external electrical noise, or defective CNU
252	Central controller incorrect address error. Check addresses match, if OK either comms cable picking up external electrical noise, or defective CNU
253	Central Controller Disconnection Error, No response from Air Conditioner. Check wiring, if OK either comms cable picking up external electrical noise, defective CNU, or Interface.
C1	Indoor unit return air sensor fault, Open or Short. Disconnect sensor from PCB and measure resistance. 8 kOhm at 30C and 13 kOhm at 20C if not replace sensor
C2	Indoor Pipe Sensor or Outdoor Sensor Assy fault, Open or Short. Disconnect from PCB and measure resistance. Air sensor = 10 kOhm at 25C, Pipe sensor = 5 kOhm at 25C. If not replace sensor.
C4	RAC Product = Heat Sink Sensor Error, Open/Short Cct or over 95C. Commercial Product = Condensate pump float switch risen. Check drain pan is empty, check pump is working OK. If no pump check blue jumper plug is inserted in socket CN Float.
C5	Comms Error, check your wiring, remove external pumps. Split/Multi - check volts from terminal N to 3 = 0 - 65 Vdc, Multi V - 4 Vdc terminals 3 and 4
C6	Inverter compressor run current high. Check compressor windings all equal 1 to 4 Ohms, Check to earth 50 MOhm minimum, check run current
C7	Splits = Compressor Over Current (CT2), also see Code 06.
C8	RAC Indoor unit BLDC Fan problem. This is caused by the Indoor fan being locked. Check fan motor is plugged in correctly, Electrically & Mechanically sound. Check the fan motor turns freely, check the AC Voltage supplied to the fan motor, this will vary from 120 V ac at low speed to 170V AC at high speed. If no Voltage is present the the PCB is faulty, if Voltage is present the fan motor will be Faulty.
C9	Outdoor unit fan problem. Check Outdoor fan motor is plugged in, Electrically & Mechanically sound, if not replace motor, otherwise replace PCB.
CA	Compressor discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C, 168 kOhm at 30C.
CC	RAC Product = EEPROM Sum Check Error, text 60 for help.
Cd	RAC Product = PSC (Reactor) Error, text 27 for help.
CE	RAC Product = Compressor Phase Current Error
CH00	Text the 1, 2 or 3 digit fault code number only. I.e. If you see fault code CH07 on your indoor unit or R/Controller, only type 7 or 07 in your text message.
CH01	Indoor unit return air sensor fault. Disconnect sensor from PCB and measure resistance. 8 kOhm at 30C and 13 kOhm at 20C if not replace sensor
CH02	Indoor Pipe Sensor or Outdoor Sensor Assy fault, Open or Short. Disconnect from PCB and measure resistance. Air sensor = 10 kOhm at 25C, Pipe sensor = 5 kOhm at 25C. If not replace sensor.
CH03	Remote controller comms error. Check wired correctly, if so check dipswitch in RC. Set to Sg for 1 unit, or Gr for group then reset power
CH04	RAC Product = Heat Sink Sensor Error, Open/Short Cct or over 95C. Commercial Product = Condensate pump float switch risen. Check drain pan is empty, check pump is working OK. If no pump check blue jumper plug is inserted in socket CN Float.
CH05	Comms Error, check your wiring, remove external pumps. Split/Multi - check volts from terminal N to 3 = 0 - 65 Vdc, Multi V - 4 Vdc terminals 3 and 4
CH06	Indoor unit coil sensor fault. Disconnect from PCB measure resistance. 10 kOhm at 10C and 4 kOhm at 30C. if not replace sensor. Split = text 21
CH07	Multi Splits and Multi V = indoor unit is set to run in a different mode from the master indoor unit. Set ALL indoor units to cooling or ALL to heating to clear. Splits = Compressor Over Current (CT2), also see Code 06.
CH08	RAC Indoor unit BLDC Fan problem. This is caused by the Indoor fan being locked. Check fan motor is plugged in correctly, Electrically & Mechanically sound. Check the fan motor turns freely, check the AC Voltage supplied to the fan motor, this will vary from 120 V ac at low speed to 170V AC at high speed. If no Voltage is present the the PCB is faulty, if Voltage is present the fan motor will be Faulty.
CH09	Split = Outdoor unit fan problem. Check Outdoor fan motor is plugged in, Electrically & Mechanically sound, if not replace motor, otherwise replace PCB. Multi V = indoor PCB failure. Replace PCB
CH10	RAC Product: Compressor discharge sensor fault. Disconnect from PCB measure resistance 237 kOhm at 20°C, 168 kOhm at 30C. Multi Fdx & Multi V text 8
CH11	Multi V indoor unit not connected to an outdoor unit. Check comms wiring is correct, and check initialisation has been carried out correctly
CH12	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
CH13	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
CH14	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
CH15	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message
CH16	no such fault code Text 1, 2 or 3 digit fault code number only. If you see fault code CH07 only type 7 in your text message

AIR THERMISTOR READINGS

TEMP	KΩ	VDC (OUT)
32	33.82	3.68
33	32.84	3.65
34	31.89	3.62
35	30.97	3.6
36	30.08	3.57
37	29.22	3.54
38	28.39	3.51
39	27.58	3.48
40	26.8	3.44
41	26.05	3.41
42	25.32	3.38
43	24.61	3.35
44	23.92	3.32
45	23.26	3.29
46	22.62	3.26
47	22	3.23
48	21.39	3.19
49	20.81	3.16
50	20.24	3.13
51	19.7	3.1
52	19.16	3.06
53	18.65	3.03
54	18.15	3
55	17.67	2.97
56	17.2	2.93
57	16.74	2.9
58	16.3	2.87
59	15.87	2.84
60	15.46	2.8
61	15.06	2.77
62	14.66	2.74
63	14.28	2.71
64	13.92	2.67
65	13.56	2.64
66	13.21	2.61
67	12.88	2.58
68	12.55	2.55
69	12.23	2.51
70	11.92	2.48
71	11.62	2.45
72	11.33	2.42
73	11.05	2.39
74	10.78	2.36
75	10.51	2.32
76	10.25	2.29
77	10	2.26
78	9.76	2.23
79	9.52	2.2
80	9.29	2.17
81	9.06	2.14
82	8.84	2.11
83	8.63	2.08
84	8.42	2.05
85	8.22	2.02
86	8.03	1.99
87	7.84	1.97
88	7.65	1.94
89	7.47	1.91
90	7.3	1.88
91	7.13	1.85
92	6.96	1.83
93	6.8	1.8
94	6.64	1.77
95	6.49	1.75
96	6.34	1.72
97	6.2	1.69
98	6.06	1.67
99	5.92	1.64
100	5.79	1.62

PIPE THERMISTOR READINGS

TEMP	KΩ	VDC (OUT)
0	45.74	4.4
1	44.24	4.39
2	42.79	4.37
3	41.39	4.35
4	40.04	4.33
5	38.75	4.31
6	37.5	4.29
7	36.29	4.27
8	35.13	4.25
9	34.02	4.23
10	32.94	4.21
11	31.9	4.19
12	30.9	4.16
13	29.93	4.14
14	28.99	4.12
15	28.09	4.1
16	27.23	4.07
17	26.39	4.05
18	25.58	4.02
19	24.8	4
20	24.04	3.97
21	23.32	3.95
22	22.61	3.92
23	21.93	3.9
24	21.28	3.87
25	20.64	3.85
26	20.03	3.82
27	19.44	3.79
28	18.87	3.76
29	18.31	3.74
30	17.78	3.71
31	17.26	3.68
32	16.76	3.65
33	16.28	3.62
34	15.81	3.59
35	15.36	3.56
36	14.92	3.53
37	14.5	3.5
38	14.09	3.47
39	13.69	3.44
40	13.3	3.41
41	12.93	3.38
42	12.57	3.35
43	12.22	3.32
44	11.89	3.29
45	11.56	3.25
46	11.24	3.22
47	10.94	3.19
48	10.64	3.16
49	10.35	3.13
50	10.07	3.09
51	9.8	3.06
52	9.54	3.03
53	9.28	3
54	9.04	2.97
55	8.8	2.93
56	8.56	2.9
57	8.34	2.87
58	8.12	2.84
59	7.91	2.8
60	7.7	2.77
61	7.51	2.74
62	7.31	2.71
63	7.12	2.67
64	6.94	2.64
65	6.76	2.61
66	6.59	2.58
67	6.43	2.54
68	6.26	2.51
69	6.11	2.48

TEMP	KΩ	VDC (OUT)
70	5.95	2.45
71	5.81	2.42
72	5.66	2.39
73	5.52	2.36
74	5.39	2.32
75	5.25	2.29
76	5.12	2.26
77	5	2.23
78	4.88	2.2
79	4.76	2.17
80	4.65	2.14
81	4.53	2.11
82	4.43	2.08
83	4.32	2.05
84	4.22	2.02
85	4.12	2
86	4.02	1.97
87	3.93	1.94
88	3.83	1.91
89	3.74	1.88
90	3.66	1.86
91	3.57	1.83
92	3.49	1.8
93	3.41	1.77
94	3.33	1.75
95	3.26	1.72
96	3.18	1.7
97	3.11	1.67
98	3.04	1.64
99	2.97	1.62
100	2.9	1.6
101	2.84	1.57
102	2.78	1.55
103	2.71	1.52
104	2.65	1.5
105	2.6	1.48
106	2.54	1.45
107	2.48	1.43
108	2.43	1.41
109	2.38	1.39
110	2.33	1.36
111	2.27	134
112	2.23	1.32
113	2.18	1.3
114	2.13	1.28
115	2.09	1.26
116	2.04	1.24
117	2	1.22
118	1.96	1.2
119	1.92	1.18
120	1.88	1.16
121	1.84	1.14
122	1.8	1.12
123	1.76	1.11
124	1.72	1.09
125	1.69	1.07
126	1.65	1.05
127	1.62	1.04
128	1.59	1.02
129	1.56	1
130	1.52	0.99
131	1.49	0.97
132	1.46	0.95
133	1.43	0.94
134	1.41	0.92
135	1.38	0.91
136	1.35	0.89
137	1.32	0.88
138	1.3	0.87
139	1.27	0.85
140	1.25	0.84

SERVICE BULLETIN

US Contact;

E-mail: amour24@lge.com

Phone :

Air Conditioner

LG Electronics Inc.

No. of Issue :
Date of Issue Jul. 16. 2009

Written by : J.B. Park

Buyer Model : LMU240CE, LMU240HE, LMU360CE, LMU360HE

LGE Model : A2UC243FA0, A2UH243FA0, A3UC363FA0, A3UH363FA0

Buyer Name : North America | **Effective Date** : Jul. 16. 2009

Subject : ODU A or B Compressor's Terminal part is broken

No	Location No	BEFORE CHANGE		AFTER CHANGE		Code	model
		Part No	Description	Part No	Description		
1	554160A	2520UGHK2AA	Comprssor	2520UGHK2AA	Comprssor	C4	LMU240CE
	554160B	2520UGJK2AA	Comprssor	2520UGJK2AA	Comprssor		
	552114	5211A22710C	Tube Assy, Discharge	5211A22710C	Tube Assy, Discharge		
2	554160A	2520UGHK2AA	Comprssor	2520UGHK2AA	Comprssor	C4	LMU240HE
	554160B	2520UGJK2AA	Comprssor	2520UGJK2AA	Comprssor		
	552114	5211A22710A	Tube Assy, Discharge	5211A22710A	Tube Assy, Discharge		
3	554160A	TBZ30111701	Comprssor	TBZ30111701	Comprssor	C4	LMU360CE
	554160B	2520UGHK2AA	Comprssor	2520UGHK2AA	Comprssor		
	552114	AJR30834102	Tube Assy, Discharge	AJR30834102	Tube Assy, Discharge		
4	554160A	TBZ30111701	Comprssor	TBZ30111701	Comprssor	C4	LMU360HE
	554160B	2520UGHK2AA	Comprssor	2520UGHK2AA	Comprssor		
	552114	AJR30834101	Tube Assy, Discharge	AJR30834101	Tube Assy, Discharge		

Symptom / Reason

1. Symptom : The unit's A or B Compressor is not working.

2. Reason : Compressor's terminal is damaged due to check valve's fault.

3. Corrective Action

-. When A or B Compressor is exchanged, change all(A, B) Compressors and discharge Assembly Pipe. (Refer to the attachment)

* Interchangeability Code

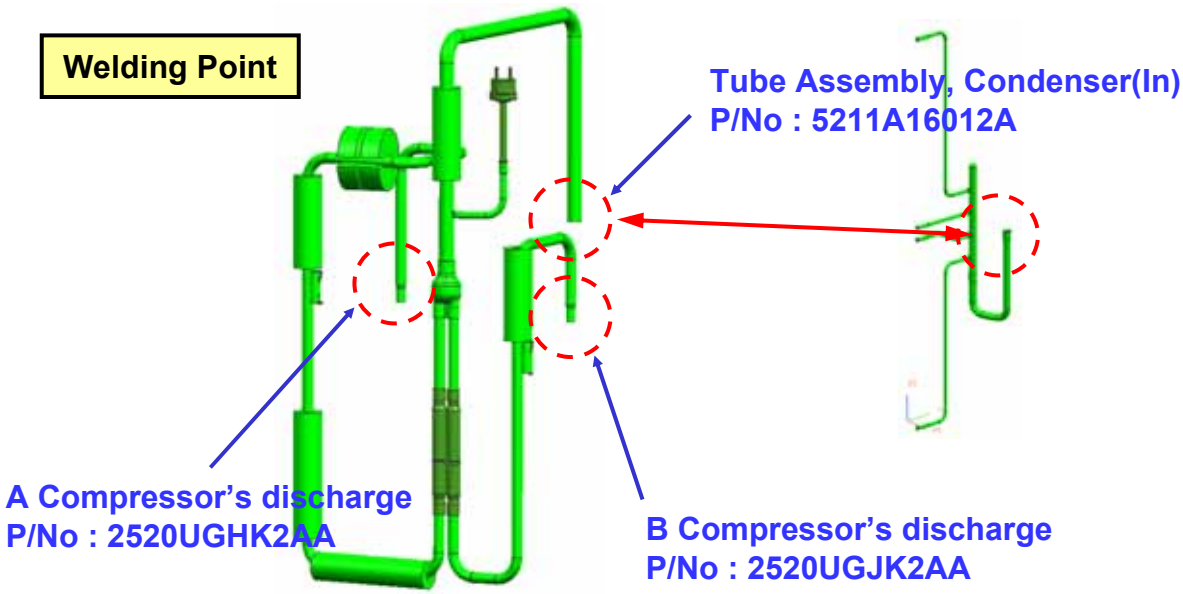
Alphabetic Code	
A	Interchangeable : Old and new parts can be used in products as the bulletin regardless of manufacturing date.
B	Old parts can be substituted for new parts : Old parts can be used in previous products only, but new parts can be used regardless of manufacturing date.
C	New parts can be substituted for old parts : Only new parts can be used in products regardless of manufacture date.
D	Not interchangeable : New parts can be used in new products only.

Numeral Code	
1.	To improve performance.
2.	To improve productivity.
3.	To improve reliability.
4.	Change of material or dimension.
5.	Addition.
6.	Deletion.
7.	Correction.
8.	To improve delivery.

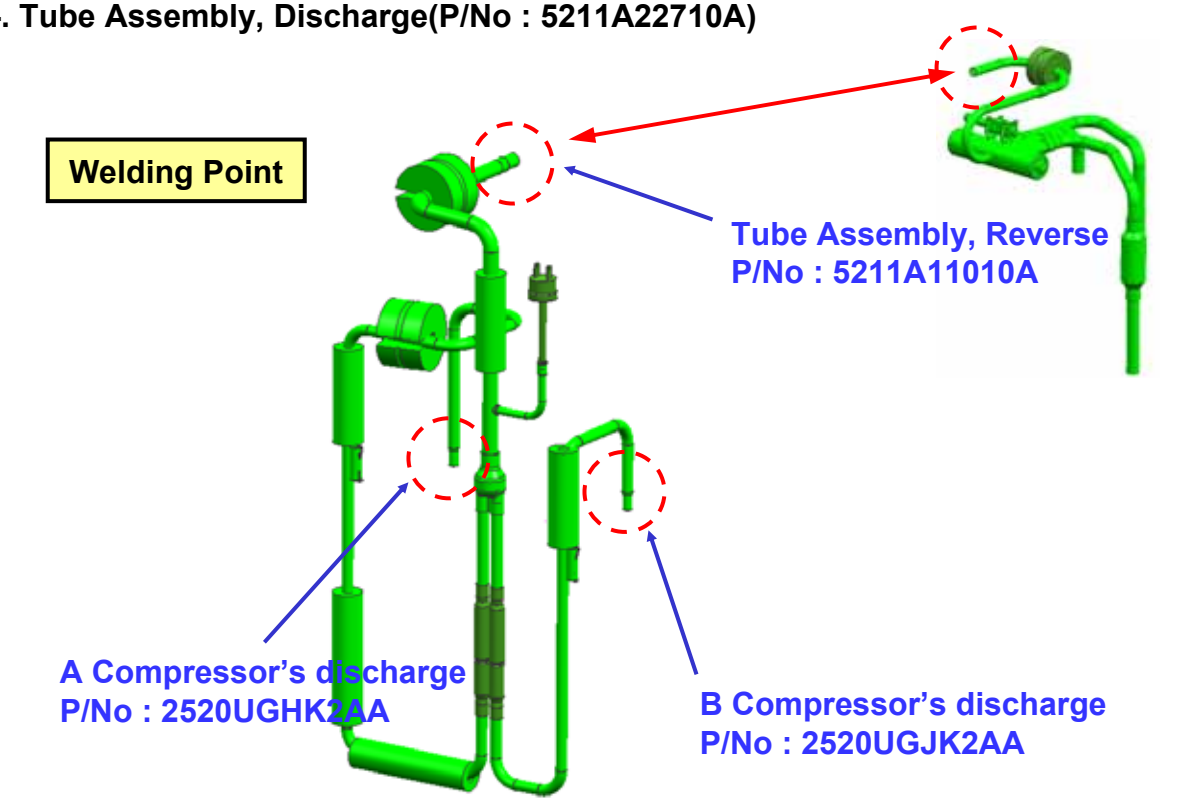
ATTACHMENT 1

WORK FLOW

- **LMU240CE(A2UC243FA0)**
  -. Tube Assembly, Discharge(P/No : 5211A22710C)



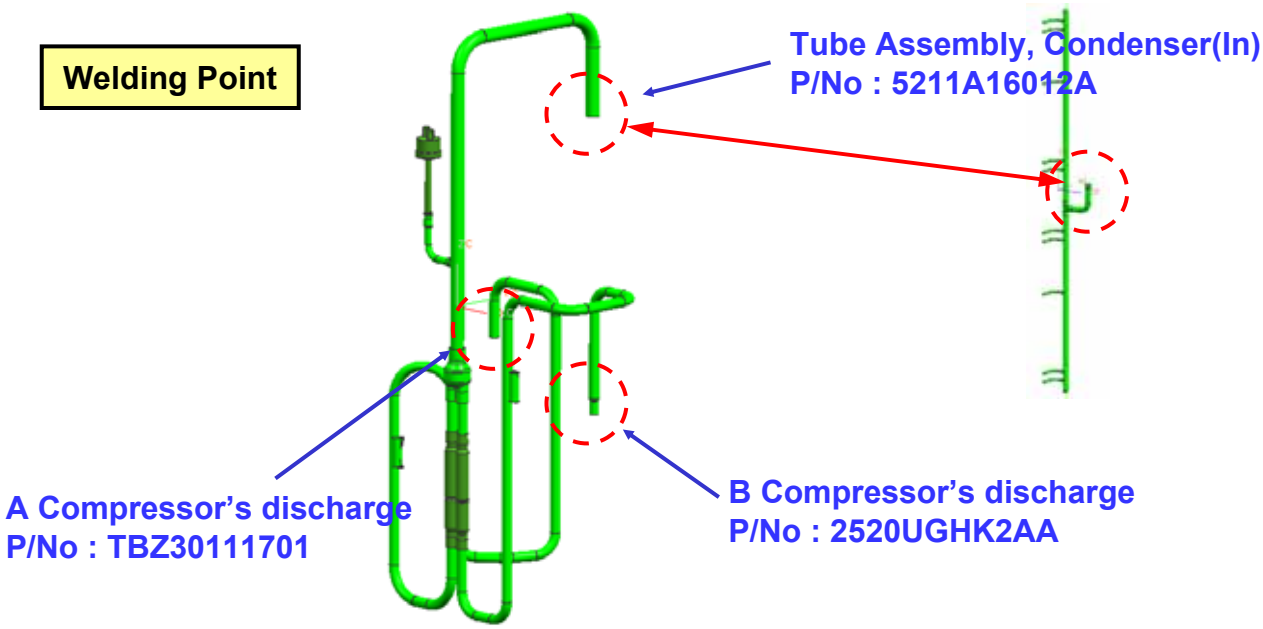
- **LMU240HE(A2UH243FA0)**
  -. Tube Assembly, Discharge(P/No : 5211A22710A)



ATTACHMENT 2

WORK FLOW

- **LMU360CE(A3UC363FA0)**
  -. Tube Assembly, Discharge(P/No : AJR30834102)



- **LMU360HE(A3UH363FA0)**
  -. Tube Assembly, Discharge(P/No : AJR30834101)